

Work Order ID 100065

April 17 13 11:08:23 PM

100065

Page 1

Item ID: D4004-5

Accept

N900040100

Setup Start

NS1

Revision ID:

Item Name: Bottom Strap Attach Bracket

Stop

NS2

Start Date: 4/17/13 Start Qty: 10.00

10

Cust Item ID:

Required Date: 5/01/13 Req'd Qty: 10.00

10

Customer:

Reference:

Approvals: Process Plan: *MF*

Date: 13-4-13 Tooling:

Date:

Run Start

NR1

QC:

Date: SPC (Y/N):

Date:

Stop

NR2

| Sequence ID/ Work Center ID | Operation Description | Set Up/ Run Hours | Tool ID | Tool # | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp |
|--------------------------------|--|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
| Draw Nbr | Revision Nbr | | | | | | | | |
| 100 | | 0.00 | | | | | | | |
| *100* | BAND SAW | | | | | | | | |
| Bandsaw | Memo | 0.00 | | | | | | | |
| Jeaspa Bandsaw | 1-Cut D3033-144 extrusion to length per D4004-5 detail of dwg D4004 | | | | | | | | |
| | Ensure cut is started at correct place per dwg | | | | | | | | |
| | Batch: 96799 | | | | | | | | |
| | 2-Deburr | | | | | | | | |
| 105 | | 0.00 | | | | | | | |
| *105* | | | | | | | | | |
| Small Fab | Memo | 0.00 | | | | | | | |
| Small Fab | Drill and c'sink holes as per dwg and trim part to lenght as required. | | | | | | | | |

F.R. 10 0
MF 13/04/24

*10X**EP 3/04/25*

NCR: Yes / No

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

| Work Order: | | | DISPOSITION | | | AGAINST DEPARTMENT/PROCESS | | | | | | | | | |
|---|------|------|-------------------|---|---------------|----------------------------|--------------------|---|---------------------|--------------------------|--------------|--|--|---|--|
| | | | Rework | <input type="checkbox"/> | Skid-tube | <input type="checkbox"/> | Crosstube | <input type="checkbox"/> | Water Jet | <input type="checkbox"/> | Engineering | | | | |
| | | | Scrap | <input type="checkbox"/> | Machining | <input type="checkbox"/> | Small Fab | <input type="checkbox"/> | Prod. Eng. Coor. | <input type="checkbox"/> | Quality | | | | |
| | | | Use-as-is | <input type="checkbox"/> | Thermoforming | <input type="checkbox"/> | Finishing | <input type="checkbox"/> | Rec/Store/Packaging | <input type="checkbox"/> | Other | | | | |
| | | | Work Order Update | <input type="checkbox"/> | Large Fab | <input type="checkbox"/> | Composite | <input type="checkbox"/> | Supplier | <input type="checkbox"/> | | | | | |
| Root Cause | Date | Step | Qty | Description of work order update or Non-conformance | | Initial Chief Eng | Action Description | | Sign & Date | Verification | QC Inspector | | | | |
| Doc/Data | | | | | | | | | | | | | | | |
| Equip/Tooling | | | | | | | | | | | | | | | |
| Operator | | | | | | | | | | | | | | | |
| Material | | | | | | | | | | | | | | | |
| Setup | | | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | | | |
| Process | | | | | | | | | | | | | | | |
| Supplier | | | | | | | | | | | | | | | |
| Training | | | | | | | | | | | | | | | |
| Unapproved | | | | | | | | | | | | | | | |
| FAULT CATEGORY | | | | | | | | | | | | | | | |
| Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube | | | | General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio | | | | <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions | | | | <input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge | | <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled | |
| | | | | | | | | | | | | | | <input type="checkbox"/> Other | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

Work Order ID 100065

April-17-13 1:08:23 PM

100065

Page 2

Item ID: D4004-5

Accept

N900040100

Setup Start

NS1

Revision ID:

Item Name: Bottom Strap Attach Bracket

Stop

NS2

Start Date: 4/17/13 Start Qty: 10.00

10

Cust Item ID:

Required Date: 5/01/13 Req'd Qty: 10.00

10

Customer:

Reference:

Approvals: Process Plan:

Date:

Tooling:

Date:

Run Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

| Sequence ID/ Work Center ID | Operation Description | Set Up/ Run Hours | Tool ID | Tool # | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp |
|-----------------------------------|---|----------------------|-----------|--------|--------------|---------------|---------------|------------------|----------------|
| 110 *110* QC | QC5- Inspect part completeness to step on W/O Memo | 0.00 | DAS 27 | | | 16 | | | |
| Quality Control | | 0.00 | | | | | | | |
| 120 *120* HandFinish | Chemical Conversion Coat per QSI005 4.1 Memo | 0.00 | DAS 27 | | | 10 | | | |
| Hand Finishing | | 0.00 | | | | | | | |
| 130 *130* QC | QC7-Inspect Chemical Conversion Coat Memo | 0.00 | B42S | | | 10 | | | |
| Quality Control | | 0.00 | | | | | | | |

NCR: Yes / No

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

| Work Order: | | | DISPOSITION | | | AGAINST DEPARTMENT/PROCESS | | | | | | | | | |
|---|------|---------|---|--|--|--|---------------------------------|--------------|--------------|--|--|--|--|---|--|
| | | | Rework Scrap Use-as-is Work Order Update | Skid-tube Machining Thermoforming Large Fab | Crosstube Small Fab Finishing Composite | Water Jet Prod. Eng. Coor. Rec/Store/Packaging Supplier | Engineering Quality Other | | | | | | | | |
| Part No. | | NCR No. | | | | | | | | | | | | | |
| Root Cause | Date | Step | Qty | Description of work order update or Non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector | | | | | | |
| Doc/Data | | | | | | | | | | | | | | | |
| Equip/Tooling | | | | | | | | | | | | | | | |
| Operator | | | | | | | | | | | | | | | |
| Material | | | | | | | | | | | | | | | |
| Setup | | | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | | | |
| Process | | | | | | | | | | | | | | | |
| Supplier | | | | | | | | | | | | | | | |
| Training | | | | | | | | | | | | | | | |
| Unapproved | | | | | | | | | | | | | | | |
| FAULT CATEGORY | | | | | | | | | | | | | | | |
| Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube | | | | General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions | | | | | | <input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Other | | | | <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled | |

Work Order ID 100065

April-17-13 1:08:23 PM

100065

Page 3

Item ID: D4004-5

Accept

N900040100

Setup

Start

NS1

Revision ID:

Item Name: Bottom Strap Attach Bracket

Stop

NS2

Start Date: 4/17/13 Start Qty: 10.00 *10*

Cust Item ID:

Required Date: 5/01/13 Req'd Qty: 10.00 *10*

Customer:

Reference:

Approvals: Process Plan:

Date:

Tooling:

Date:

Run

Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

| Sequence ID/ Work Center ID | Operation Description | Set Up/ Run Hours | Tool ID | Tool # | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp |
|--|---|----------------------|---------|--------|--------------|---------------|---------------|------------------|-----------------------------|
| 140 *140* Packaging | Identify as per dwg & Stock Location: Memo | 0.00 57243 | | | | | | | 4/3/13 (W) |
| 150 *150* QC Quality Control | QC21- Final Inspection - Work Order Release Memo | 0.00 | | | | | | | 13/5/13 JJ MF 13-4-29 |

150

QC21- Final Inspection - Work Order Release

0.00

150

QC

Quality Control

NCR: Yes / No

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

| Work Order: | | | DISPOSITION | | | AGAINST DEPARTMENT/PROCESS | | | | | |
|---|------|------|---|--|--|--|---------------------------------|--------------|--------------|--|--|
| | | | Rework Scrap Use-as-is Work Order Update | Skid-tube Machining Thermoforming Large Fab | Crosstube Small Fab Finishing Composite | Water Jet Prod. Eng. Coor. Rec/Store/Packaging Supplier | Engineering Quality Other | | | | |
| Part No. _____ NCR No. _____ | | | | | | | | | | | |
| Root Cause | Date | Step | Qty | Description of work order update or Non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector | | |
| Doc/Data | | | | | | | | | | | |
| Equip/Tooling | | | | | | | | | | | |
| Operator | | | | | | | | | | | |
| Material | | | | | | | | | | | |
| Setup | | | | | | | | | | | |
| Other | | | | | | | | | | | |
| Process | | | | | | | | | | | |
| Supplier | | | | | | | | | | | |
| Training | | | | | | | | | | | |
| Unapproved | | | | | | | | | | | |
| FAULT CATEGORY | | | | | | | | | | | |
| Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube | | | | General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions | | | | | | | |
| | | | | <input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Other | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

Picklist Print

April 17-13 1:08:28 PM

Page 1

Work Order ID: 100065

100065

Parent Item: D4004-5

D4004-5

Parent Item Name: Bottom Strap Attach Bracket

Start Date: 4/17/13

Required Date: 5/01/13

Start Qty: 10.00

Required Qty: 10.00

Comments: IPP rev A 09.12.15 new issue EC verified by:DD
10.05.17 as per ECN10-562 DD verf:EC
per dwg rev.b DD verf: EC

IPP Rev:B
IPP Rev:C 12.03.07 as

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Qty per Kit | Total Qty | Qty Issued | Date Issued | Status |
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|
| D3033-144 | | Manufactured | No | | | 100 | f | 38.0000 | 0.41 | 4.315789 | ** | | |

D3033-144

Seat Track

Location Loc Qty Loc Code

ST209a 38 5,031'

84257 2 _____

96799 36 _____

11/13/04/24

NCR: Yes / No

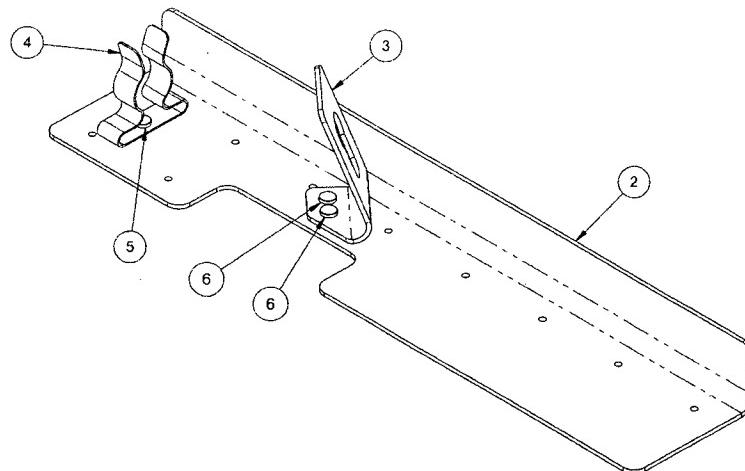
DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

| Work Order: | | | DISPOSITION | | | AGAINST DEPARTMENT/PROCESS | | | | | |
|---|------|---------|---|--|--|--|---------------------------------|--------------|--------------|--|--|
| | | | Rework Scrap Use-as-is Work Order Update | Skid-tube Machining Thermoforming Large Fab | Crosstube Small Fab Finishing Composite | Water Jet Prod. Eng. Coor. Rec/Store/Packaging Supplier | Engineering Quality Other | | | | |
| Part No. | | NCR No. | | | | | | | | | |
| Root Cause | Date | Step | Qty | Description of work order update or Non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector | | |
| Doc/Data | | | | | | | | | | | |
| Equip/Tooling | | | | | | | | | | | |
| Operator | | | | | | | | | | | |
| Material | | | | | | | | | | | |
| Setup | | | | | | | | | | | |
| Other | | | | | | | | | | | |
| Process | | | | | | | | | | | |
| Supplier | | | | | | | | | | | |
| Training | | | | | | | | | | | |
| Unapproved | | | | | | | | | | | |
| FAULT CATEGORY | | | | | | | | | | | |
| Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube | | | | General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions | | | | | | | |
| | | | | <input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Other | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| ITEM NO | QTY. | PART NUMBER | DESCRIPTION | JOHN CAMERON AVIATION PART NUMBER |
|---------|------|--------------|----------------------|--------------------------------------|
| 1 | X | D4004-041 | SIDE RESTRAINT ANGLE | JCA-M47-2-19 |
| 2 | 1 | D4004-1 | SIDE RESTRAINT | |
| 3 | 1 | D4004-3 | ANGLE | |
| 4 | 1 | D4004-7 | HOSE CLIP | |
| 5 | 1 | MS20426AD4-4 | RIVET | |
| 6 | 2 | MS20426AD4-5 | RIVET | |



D4004-041 SIDE RESTRAINT ANGLE

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: POWDER COAT "ANSI 61 GREY" (4.3.5.15) PER DART QSI 005 4.3 
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
- 7) WEIGHT: 0.21 lbs

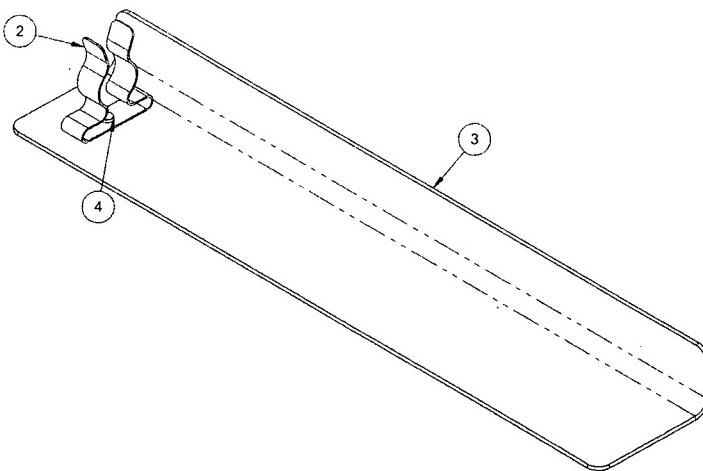
8 7 6 5 4 3 2 1

| | | | |
|------------|---|---|---------------|
| B | CHANGE POWDER COAT FROM "GREY SANTEX" TO "ANSI 61 GREY", ZN A8-1, ZN A8-2 | DC | 12.02.27 |
| A | NEW ISSUE | HS | 10.02.10 |
| REV. | DESCRIPTION | BY | DATE |
| DESIGN |  | DART AEROSPACE LTD | |
| DRAWN |  | HAWKESBURY, ONTARIO, CANADA | |
| CHECKED |  | DRAWING NO. | REV. B |
| MFG. APPR. |  | D4004 | SHEET 1 OF 11 |
| APPROVED |  | TITLE | SCALE |
| DE APPR. |  | SIDE RESTRAINT | NTS |
| DATE | 12.02.27 | COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD | |

13-04-12
100065-M5
RELEASED
2012-03-02


100065

| ITEM NO | QTY | PART NUMBER | DESCRIPTION | JOHN CAMERON AVIATION PART NUMBER |
|---------|-----|-------------|---|--------------------------------------|
| 1 | X | D4004-043 | SIDE RESTRAINT ANGLE AND TIE DOWN POINT | JCA-M47-2-04 |
| 2 | 1 | D4004-7 | HOSE CLIP | |
| 3 | 1 | D4004-9 | ANGLE | |
| 4 | 1 | MS20426AD4 | RIVET | |



D4004-043 SIDE RESTRAINT ANGLE AND TIE DOWN POINT

RELEASED
R 2012-03-02
N

NOTES:

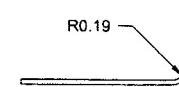
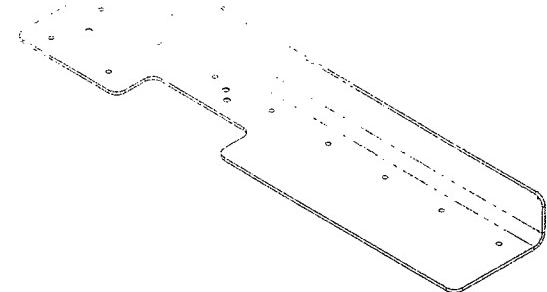
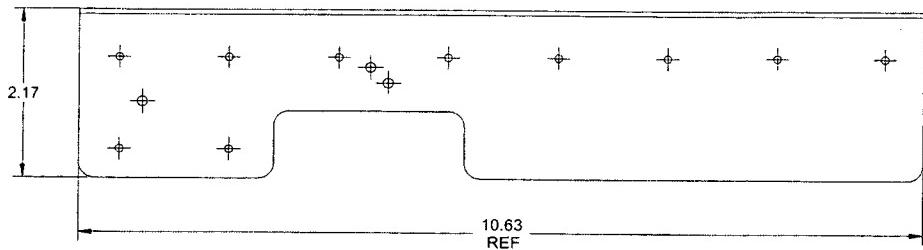
- 1) MATERIAL: N/A
- 2) FINISH: POWDER COAT "ANSI 61 GREY" (4.3.5.15) PER DART QSI 005 4.3 **B**
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
- 7) WEIGHT: 0.20 lbs

8 7 6 5 4 3 2 1

| | | | |
|------------|-----------|---|---------------|
| DESIGN | <i>BC</i> | DART AEROSPACE LTD | |
| DRAWN | <i>BC</i> | HAWKESBURY, ONTARIO, CANADA | |
| CHECKED | <i>EE</i> | DRAWING NO. | REV. B |
| MFG. APPR. | <i>EE</i> | D4004 | SHEET 2 OF 11 |
| APPROVED | <i>EE</i> | TITLE | SCALE |
| DE APPR. | <i>EE</i> | SIDE RESTRAINT | NTS |
| DATE | 12.02.27 | COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD | |

DART AEROSPACE
PART NUMBER
D4004

JOHN CAMERON AVIATION
PART NUMBER
PFT JCA-VMT 2-19



D4004-1 SIDE RESTRAINT

NOTES:

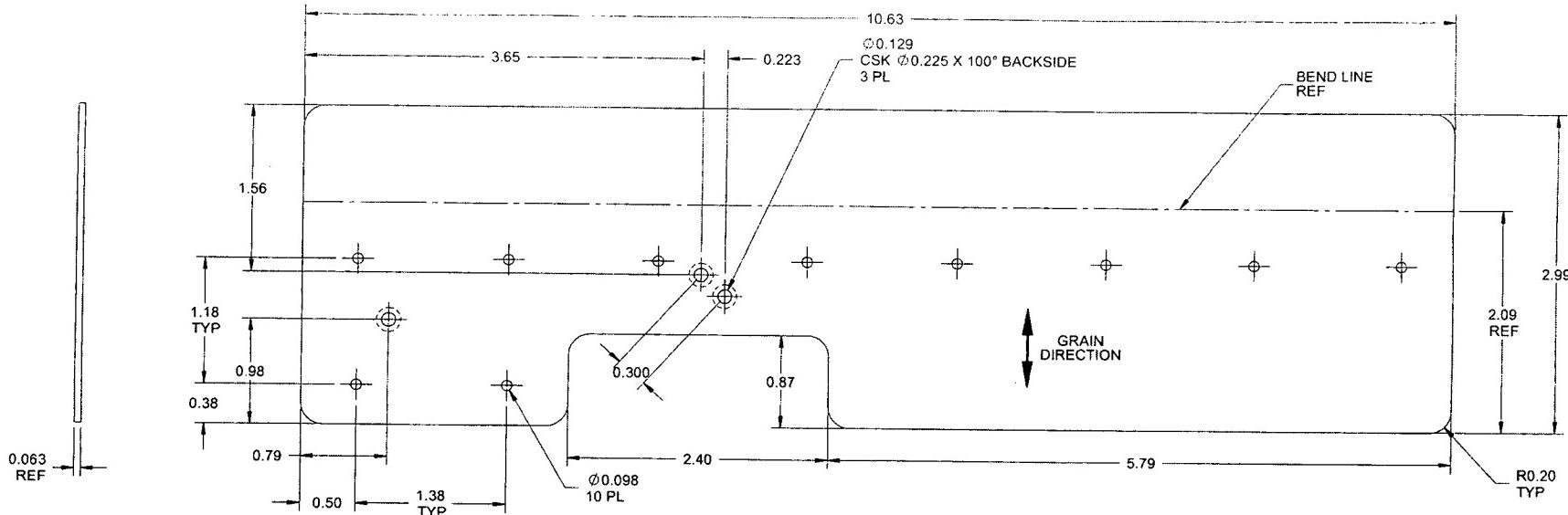
- 1) MATERIAL: MADE FROM D4004-1F
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.18 lbs

8 7 6 5 4 3 2 1

| | | | |
|------------|-----------|---|---------------|
| DESIGN | <i>BC</i> | DART AEROSPACE LTD | |
| DRAWN | <i>BC</i> | HAWKESBURY, ONTARIO, CANADA | |
| CHECKED | <i>BC</i> | DRAWING NO. | REV. B |
| MFG. APPR. | <i>BC</i> | D4004 | SHEET 3 OF 11 |
| APPROVED | <i>BC</i> | TITLE | SCALE |
| DE APPR. | <i>BC</i> | SIDE RESTRAINT | NTS |
| DATE | 12.02.27 | COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD | |

RELEASED
2012-03-02
JNP

100065



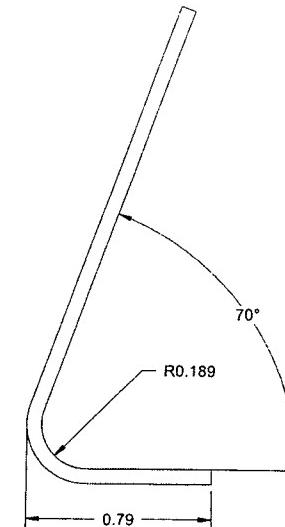
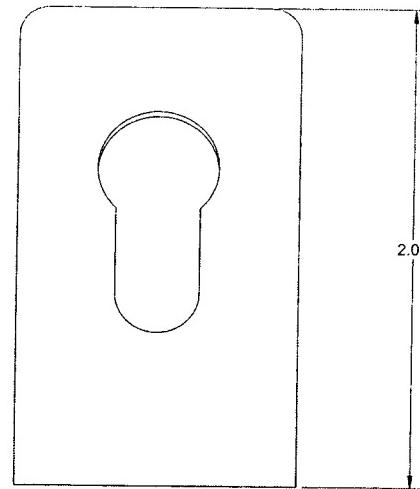
RELEASED
2012-03-02
JW

| | | |
|------------|--------------------|-----------------------------|
| DESIGN | <i>[Signature]</i> | DART AEROSPACE LTD |
| DRAWN | <i>[Signature]</i> | HAWKESBURY, ONTARIO, CANADA |
| CHECKED | <i>[Signature]</i> | DRAWING NO. |
| MFG. APPR. | <i>[Signature]</i> | D4004 |
| APPROVED | <i>[Signature]</i> | REV. B |
| DE APPR. | <i>[Signature]</i> | SHEET 4 OF 11 |
| DATE | 12.02.27 | NTS |

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100065

DART AEROSPACE CHAMBER AVIATION
PART NUMBER D4004-3 STRUT LOCK BRACKET
D4004-3 STRUT LOCK BRACKET



D4004-3 STRUT LOCK BRACKET

NOTES:

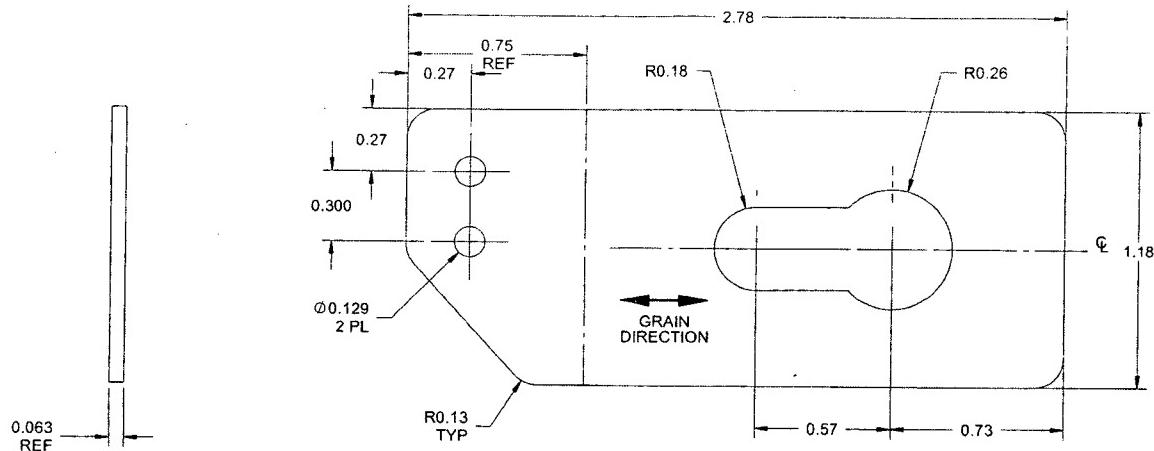
- 1) MATERIAL: MADE FROM D4004-3F
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.02 lbs

8 7 6 5 4 3 2 1

| | | |
|------------|--------------------|---|
| DESIGN | <i>[Signature]</i> | DART AEROSPACE LTD |
| DRAWN | <i>[Signature]</i> | HAWKESBURY, ONTARIO, CANADA |
| CHECKED | <i>[Signature]</i> | DRAWING NO. |
| MFG. APPR. | <i>[Signature]</i> | REV. B |
| APPROVED | <i>[Signature]</i> | SHEET 5 OF 11 |
| DE APPR. | <i>[Signature]</i> | TITLE |
| DATE | 12.02.27 | SCALE |
| | | NTS |
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RELEASED
2012-03-02
[Signature]

100065



D4004-3F FLAT PATTERN

NOTES:
 1) MATERIAL: 2024-T3 ALUMINUM SHEET, 0.063 THICK
 PER QQ-A-250/4 OR AMS-QQ-A-250/4
 OR AMS 4037 OR ASTM B209
 REF DART SPEC M2024T3S.063

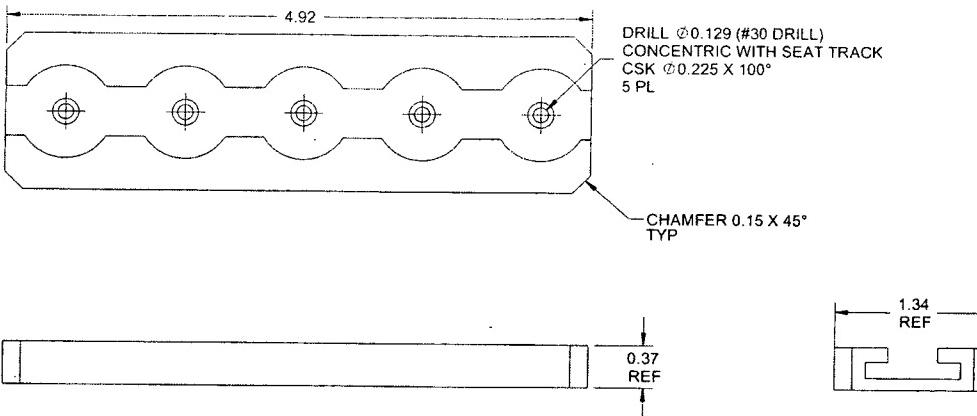
- 2) FINISH: N/A
 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 6) IDENTIFICATION: N/A
 7) WEIGHT: 0.02 lbs

8 7 6 5 4 3 2 1

| | | |
|------------|------------|-----------------------------|
| DESIGN | <i>DC</i> | DART AEROSPACE LTD |
| DRAWN | <i>DC</i> | HAWKESBURY, ONTARIO, CANADA |
| CHECKED | <i>E</i> | DRAWING NO. |
| MFG. APPR. | <i>E</i> | D4004 |
| APPROVED | <i>100</i> | REV. B |
| DE APPR. | <i>100</i> | SHEET 6 OF 11 |
| DATE | 12.02.27 | TITLE |
| | | SCALE |
| | | NTS |

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RELEASE
 2012-03-02
AM

D4004-5 BOTTOM STRAP ATTACH BRACKET

NOTES:

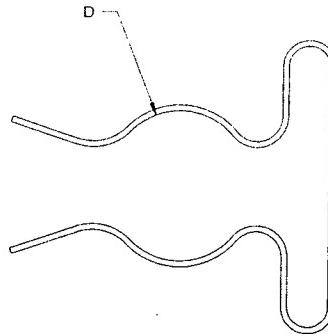
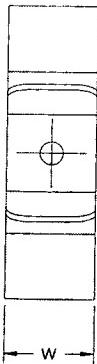
- 1) MATERIAL: MADE FROM ANCRA P/N 40456-11-144
OR BROWNLINER P/N 20276-144-0
OR D3033-144
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
- 7) WEIGHT: 0.14 lbs

8 7 6 5 4 3 2 1

| | | | |
|------------|-----------|---|---------------|
| DESIGN | <i>AS</i> | DART AEROSPACE LTD | |
| DRAWN | <i>DC</i> | HAWKESBURY, ONTARIO, CANADA | |
| CHECKED | <i>AS</i> | DRAWING NO. | |
| MFG. APPR. | <i>BB</i> | D4004 | REV. B |
| APPROVED | <i>AS</i> | TITLE | SHEET 7 OF 11 |
| DE APPR. | <i>AS</i> | SIDE RESTRAINT | NTS |
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SPECIFICATION CONTROL DRAWING

100065



| DART PART NUMBER | POSSIBLE SUPPLIER | SUPPLIER PART NUMBER | MATERIAL | FITS TUBE Ø "D" | WIDTH "W" |
|------------------|-------------------|----------------------|---------------------|-----------------|-----------|
| D4004-7 | MCMASTER-CARR | 1722A42 | NICKEL PLATED STEEL | 0.31 - 0.75 | 0.38 |

D4004-X HOSE CLIPTELEGRAM
2012-03-02

NOTES:

- 1) MATERIAL: SEE TABLE
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
- 7) WEIGHT: 0.01 lbs

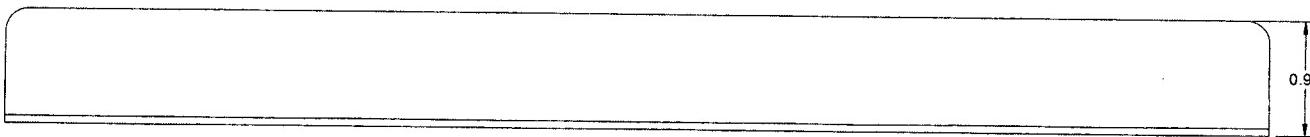
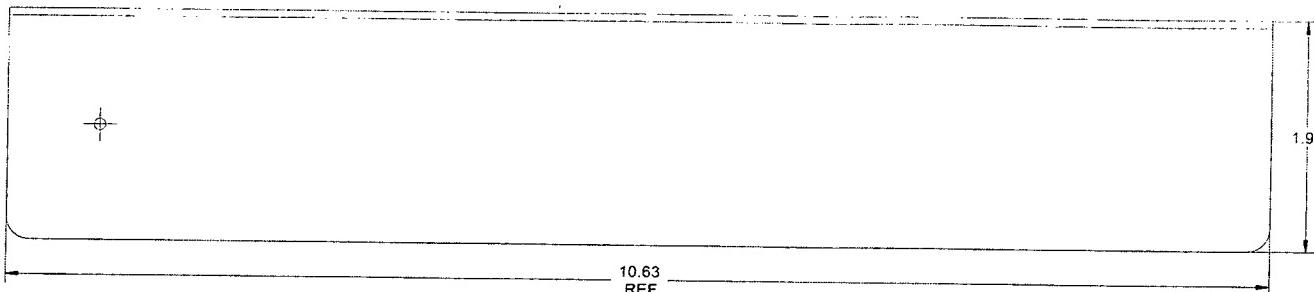
8 7 6 5 4 3 2 1

| | | | |
|------------|-----------|--|---------------|
| DESIGN | <i>BC</i> | DART AEROSPACE LTD | |
| DRAWN | <i>BC</i> | HAWKESBURY, ONTARIO, CANADA | |
| CHECKED | <i>BC</i> | DRAWING NO. | REV. B |
| MFG. APPR. | <i>BC</i> | D4004 | SHEET 8 OF 11 |
| APPROVED | <i>BC</i> | TITLE | SCALE |
| DE APPR. | <i>BC</i> | SIDE RESTRAINT | NTS |
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DART AEROSPACE
DART AEROSPACE

CAMERON AVIATION
PART NUMBER
D4004-9F

100065



D4004-9 ANGLE

2012-03-02
JL

NOTES:

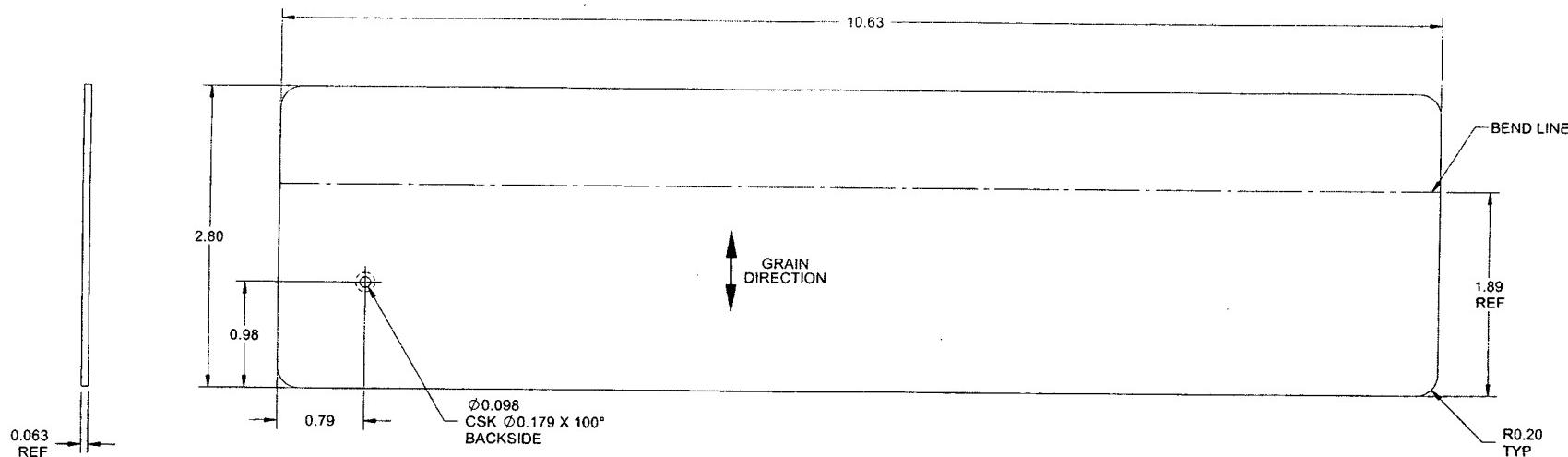
- 1) MATERIAL: MADE FROM D4004-9F
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.18 lbs

8 7 6 5 4 3 2 1

| | | | |
|------------|-----------|-----------------------------|--------|
| DESIGN | <i>BC</i> | DART AEROSPACE LTD | |
| DRAWN | <i>BC</i> | HAWKESBURY, ONTARIO, CANADA | |
| CHECKED | <i>BB</i> | DRAWING NO. | |
| MFG. APPR. | <i>BB</i> | D4004 | REV. B |
| APPROVED | <i>MM</i> | SHEET 9 OF 11 | |
| DE APPR. | <i>MM</i> | TITLE | SCALE |
| DATE | 12.02.27 | SIDE RESTRAINT | NTS |

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D4004-9F FLAT PATTERN

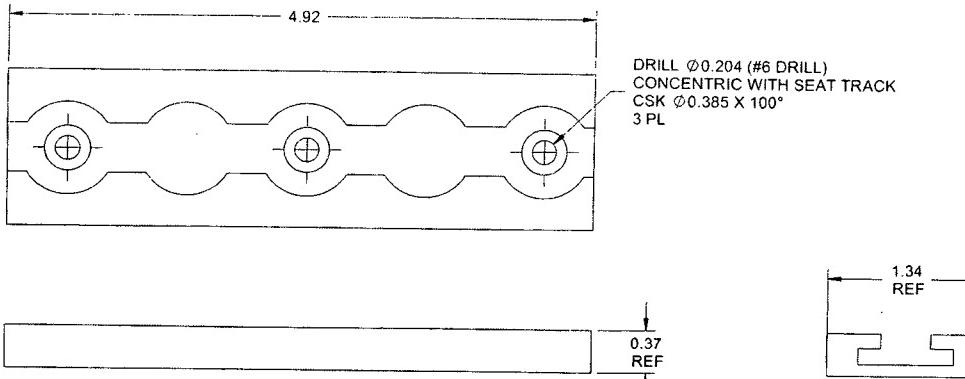
RELEASED
2012-03-00
AA

NOTES:

- 1) MATERIAL: 2024-T3 ALUMINUM SHEET, 0.063 THICK
PER QQ-A-250/4 OR AMS-QQ-A-250/4
OR AMS 4037 OR ASTM B209
REF DART SPEC M2024T3S.063
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI-018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.18 lbs

8 7 6 5 4 3 2 1

| | | | |
|------------|-----------|---|--------|
| DESIGN | <i>AB</i> | DART AEROSPACE LTD | |
| DRAWN | <i>BC</i> | HAWKESBURY, ONTARIO, CANADA | |
| CHECKED | <i>BB</i> | DRAWING NO. | |
| MFG. APPR. | <i>EE</i> | D4004 | REV. B |
| APPROVED | <i>AB</i> | SHEET 10 OF 11 | |
| DE APPR. | <i>AB</i> | TITLE | SCALE |
| | | SIDE RESTRAINT | NTS |
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D4004-11 TOP STRAP ATTACH BRACKET

RELEASED
2012-03-02

A NOTES:

- 1) MATERIAL: MADE FROM ANCRA P/N 40456-11-144
OR BROWNLINER P/N 20276-144-0-0
OR D3033-144
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
- 7) WEIGHT: 0.14 lbs

8 1 7 1 6 1 5 1 4 1 3 2 1

| | | | |
|------------|-----------|---|----------------|
| DESIGN | <i>AB</i> | DART AEROSPACE LTD | |
| DRAWN | <i>DC</i> | HAWKESBURY, ONTARIO, CANADA | |
| CHECKED | <i>BE</i> | DRAWING NO. | REV. B |
| MFG. APPR. | <i>BE</i> | D4004 | SHEET 11 OF 11 |
| APPROVED | <i>AB</i> | TITLE | SCALE |
| DE APPR. | <i>AB</i> | SIDE RESTRAINT | NTS |
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